

### PDS Lab Test 1, Problem (a) (January 28, 2022)

Time: 1 hr, Marks: 10

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**LT1a.** We are all waiting for the day when the number of cases of the pandemic on a day starts falling. Let us consider an equivalent problem. Write a program to check if a given sequence of numbers is sorted (in ascending order) or not. The program should do the following:

- i. Read in an integer  $n$
- ii. Read  $n$  integers one by one in a loop. **Do NOT use arrays (you will get zero if arrays are used!)**
- iii. Check if the integers are in ascending order and print a message accordingly. This can be done by checking if the integer read in the current iteration of the loop is  $\geq$  the integer read in the previous iteration (remember it in another variable) for all integers read. It should then print "Integers in ascending order."
- iv. If the integers entered are not in ascending order, your program should break out of the loop when the first time it detects an out of order number. It should print "Integers not in ascending order."